ADJUSTMENT

■ Safety Precautions

1. It is safe to adjust after using insulating transformer between the power supply line and chassis input to prevent the risk of electric shock and protect the instrument.
2. Never disconnect leads while the TV receiver is on.
3. Don't short any portion of circuits while power is on.
4. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.
5. Unless otherwise noted, set the line voltage to 230Vac±10%, 50Hz.

■ Test Equipment required

1. Multimeter (volt meter)
2. Oscilloscope

● RF AGC (Automatic Gain Control) Adjustment

Test Point	**: RF AGC (J3)**
Adjust	**: Remote Control**

The RF AGC was aligned at the time of manufacture for optimum performance over a wide range conditions. Readjustment of RF AGC should not be necessary unless unusual local conditions exist, such as ;

1) Channel interference in a CATV system.
2) Picture bending and/or color beats, which are unusually due to excessive RF signal input when the receiver is too close to a transmitting tower or when the receiver is connected to an antenna distribution system where the RF signal has been amplified. In this case, the input signal should be attenuated (with pad or filter) to a satisfactory level.
3) Picture noise caused by "broadcast noise" or weak signal. If the broadcast is "clean" and the RF signal is at least 1mV (60dBu), the picture will be noise free in any area.

Adjustment

1. Connect RF signal (65dB) and turn on the TV.
2. Press OK buttons on TV set and Remote Controller at the same time to get into SVC mode.
3. Press Channel UP/DOWN button on the Remote Controller several times to find AGC.
4. Press Volume UP/DOWN button until the AGC Voltage is the same as the Table below.
5. Press OK(■) button to memorize the data.

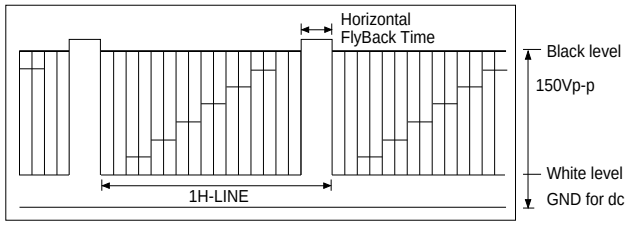
SYSTEM	PAL/SECAM-BG SECAM-LL'	PAL/SECAM-BG/DK	PAL-I
TUNER	6700VPF005A	6700VPF005B	6700VPF005B
AGC Voltage	2.3 ± 0.1V	2.3 ± 0.1V	2.1 ± 0.1V

NOTE: AGC must be adjusted when the tuner was changed.

● Screen Voltage Adjustment

Test Point	**: RK (Red Cathode of CPT Board)**
Adjust	**: Screen Control of FBT**

1) Tune the TV set to receive a digital pattern.
2) Press PSM (RED) button on remote controller. (standard picture)
3) Connect the probe of oscilloscope to the RK (Red Cathode) of CPT Board.
4) Adjust Screen Volume of FBT so that the waveform is the same as below figure.



The waveform of RK(Red Cathode) of CPT Board

● Focus Adjustment

NOTE: This adjustment should be performed after warming up for 10 minutes.

Test Point	**: Observing Display**
Adjust	**: Focus control of FBT**

1) Tune the TV set to receive an inactive channel station.
2) Adjust the Focus control of FBT for best overall focus.

● SIF Adjustment

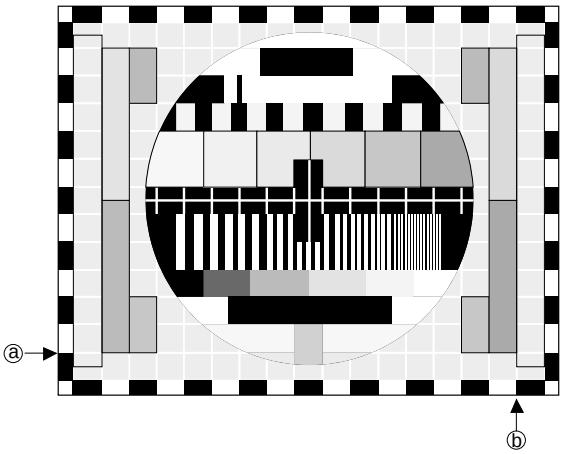
Test Point	**: VCO ADJ (2.5±0.1Vdc)**
Adjust	**: L691 (VCO Coil)**

● Deflection Data Adjustment (Line SVC-1)

NOTE: To enter SVC mode, press "OK" buttons on both TV set and the Remote control at the same time.

1. Preparation for Deflection Adjustment

1) At SVC mode, press the Yellow colored button.
   If the Remote Controller doesn't have the Yellow button, you should use a Service Remote Control (105-201G) and press SVC button.
   And then, deflection data adjustment OSD (SVC1 mode) will be displayed.
2) Press Channel UP/DOWN button for desirous function Adjustment.
3) Press Volume UP/DOWN button to adjust the data.
4) Press OK button to memorize the adjusted data before exit the SVC Mode.



<Figure>

2. Deflection Adjustment Procedure

VL (Vertical Linearity)
Adjust so that the boundary line between upper and lower half is in accord with geometric horizontal center of the CPT.

VA (Vertical Amplitude)
Adjust so that the circle of a digital circle pattern may be located within the effective screen of the CPT.

SC (Vertical "S" Correction)
Adjust so that all distance between each horizontal lines are to be the same.

VS (Vertical Shift)
Adjust so that the horizontal center line of a digital circle pattern is in accord with geometric horizontal center of the CPT.

HS (Horizontal Shift)
Adjust so that the vertical center line of a digital circle pattern is in accord with geometric vertical center of the CPT.

EW (Horizontal Width)
Adjust to that a digital circle pattern looks like exact circle.

EP (East-west Parabolar)
Adjust so that middle portion of the outermost left and right vertical line looks like parallel with vertical lines of the CPT.

EC (East-west Coner)
Adjust so that the vertical line at every 4 corners of the screen looks like parallel with the vertical lines of the CPT.

ET (East-west Trapezium)
Adjust to make the length of top horizontal line same with it of the bottom horizontal line.

VZ (Zoom Mode, Vertical Height)
Select the zoom mode with ARC button and adjust the data until the lines "a" and "b" of figure are 3~5mm from the top, bottom and each sides of CPT.

● White Balance Adjustment.(LINE SVC-0)

NOTE : This adjustment should be performed after screen voltage adjustment.

1) Tune the TV set to receive an 100% white pattern.
2) Press OK(■) buttons on TV set and remote controller at the same time to get into SVC mode.
3) Press PSM(RED) button on remote controller. (Standard picture)
4) Press Channel UP/DOWN button for desirous function adjustment.
5) Adjust VOL+ or VOL- button for GG:31.
6) Adjust VOL+ or VOL-button in each status of "Rg--"/"Bg--" for X=283±8, Y=295±8 with color analyzer.
7) Press OK(■) button to memorize the adjusted data.

● OPTION Adjustment (SVC MODE:OPTION-1, OPTION-2)

NOTE: When the EEPROM has been replaced, the Option data should be restored as the function of individual system and specification.

1) Press OK buttons on both TV set and Remote Controller at the same time to get into SVC mode.
2) Press the Yellow button several times to find OPTION-1 or OPTION-2.
3) Input the correspond OPTION data referring to Table below with the numeric buttons 0~9.
4) Press OK button to memorize the adjusted data before exit the SVC Mode.

Table 1. OPTION 1. Function & DATA

Option	Code	Function	Remark
SYSTEM	M+L	BG+LL'	CL-Model France
	B+D	BG+DK	CK-Model
	BG	BG Only	CB-Model
	II	II Only	CI-Model U.K
TOP	OFF	TOP OFF	W/O TXT or FLOF
	ON	TOP ON	Germany, Swiss, Austria
LIST	OFF	LIST OFF	W/O TXT Model
	ON	LIST ON	With TXT Model
EYE	OFF	EYE OFF	
	ON	EYE ON	
DK NICAM	OFF	D/K NICAM OFF	Stereo Option
	ON	D/K NICAM SYSTEM	

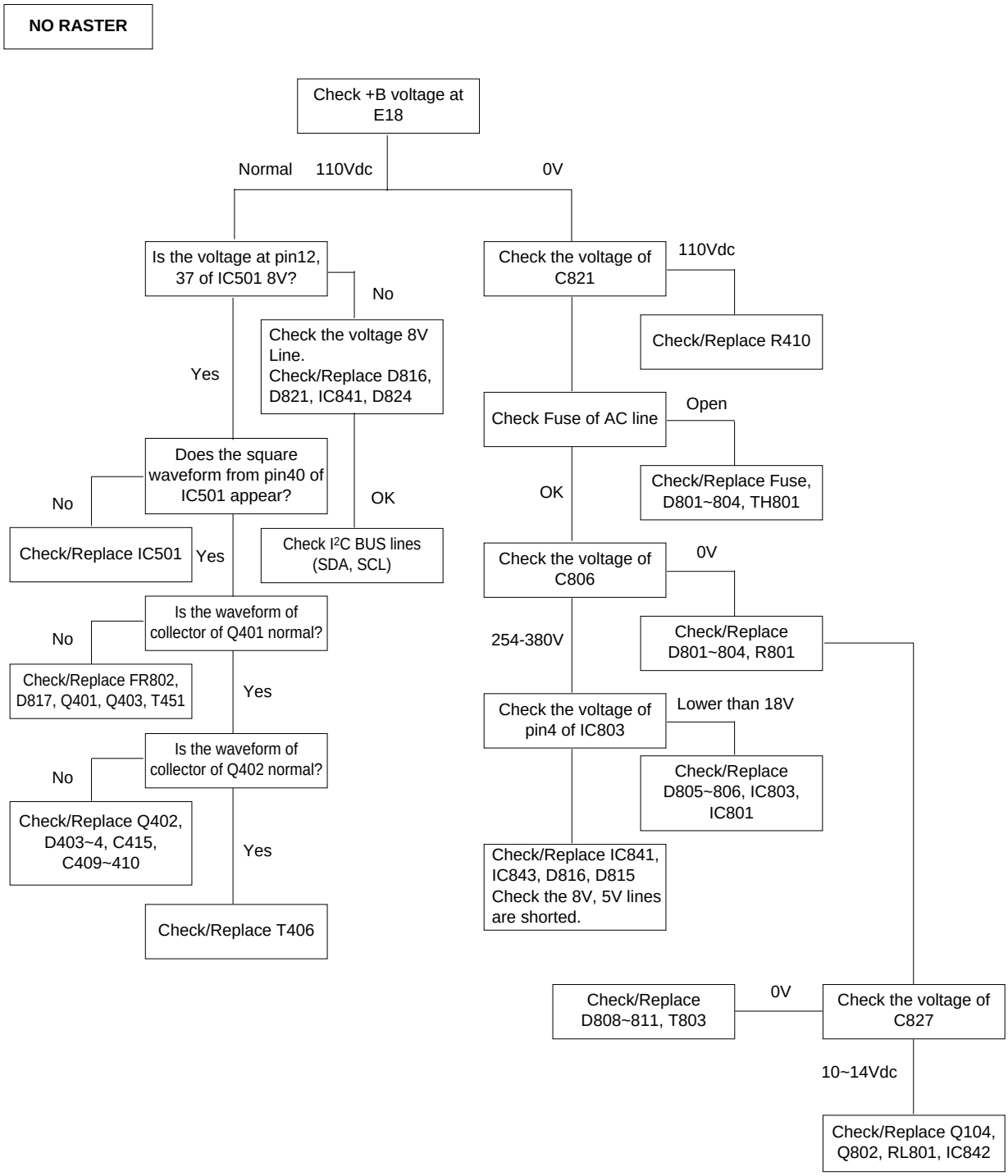
OPTION Data	SYSTEM	TOP	LIST	EYE	DK NICAM
00	B+L	OFF	OFF	OFF	OFF
01	B+D	OFF	OFF	OFF	OFF
02	BG	OFF	OFF	OFF	OFF
03	II	OFF	OFF	OFF	OFF
04	B+L	ON	OFF	OFF	OFF
05	B+D	ON	OFF	OFF	OFF
06	BG	ON	OFF	OFF	OFF
07	II	ON	OFF	OFF	OFF
08	B+L	OFF	ON	OFF	OFF
09	B+D	OFF	ON	OFF	OFF
10	BG	OFF	ON	OFF	OFF
11	II	OFF	ON	OFF	OFF
12	B+L	ON	ON	OFF	OFF
13	B+D	ON	ON	OFF	OFF
14	BG	ON	ON	OFF	OFF
15	II	ON	ON	OFF	OFF
16	B+L	OFF	OFF	ON	OFF
17	B+D	OFF	OFF	ON	OFF
18	BG	OFF	OFF	ON	OFF
19	II	OFF	OFF	ON	OFF
20	B+L	ON	OFF	ON	OFF
21	B+D	ON	OFF	ON	OFF
22	BG	ON	OFF	ON	OFF
23	II	ON	OFF	ON	OFF
24	B+L	OFF	ON	ON	OFF
25	B+D	OFF	ON	ON	OFF
26	BG	OFF	ON	ON	OFF
27	II	OFF	ON	ON	OFF
28	B+L	ON	ON	ON	OFF
29	B+D	ON	ON	ON	OFF
30	BG	ON	ON	ON	OFF
31	II	ON	ON	ON	OFF
32	B+L	OFF	OFF	OFF	ON
33	B+D	OFF	OFF	OFF	ON
34	BG	OFF	OFF	OFF	ON
35	II	OFF	OFF	OFF	ON
36	B+L	ON	OFF	OFF	ON
37	B+D	ON	OFF	OFF	ON
38	BG	ON	OFF	OFF	ON
39	II	ON	OFF	OFF	ON
40	B+L	OFF	ON	OFF	ON
41	B+D	OFF	ON	OFF	ON
42	BG	OFF	ON	OFF	ON
43	II	OFF	ON	OFF	ON
44	B+L	ON	ON	OFF	ON
45	B+D	ON	ON	OFF	ON
46	BG	ON	ON	OFF	ON
47	II	ON	ON	OFF	ON
48	B+L	OFF	OFF	ON	ON
49	B+D	OFF	OFF	ON	ON
50	BG	OFF	OFF	ON	ON
51	II	OFF	OFF	ON	ON
52	B+L	ON	OFF	ON	ON
53	B+D	ON	OFF	ON	ON
54	BG	ON	OFF	ON	ON
55	II	ON	OFF	ON	ON
56	B+L	OFF	ON	ON	ON
57	B+D	OFF	ON	ON	ON
58	BG	OFF	ON	ON	ON
59	II	OFF	ON	ON	ON
60	B+L	ON	ON	ON	ON
61	B+D	ON	ON	ON	ON
62	BG	ON	ON	ON	ON
63	II	ON	ON	ON	ON

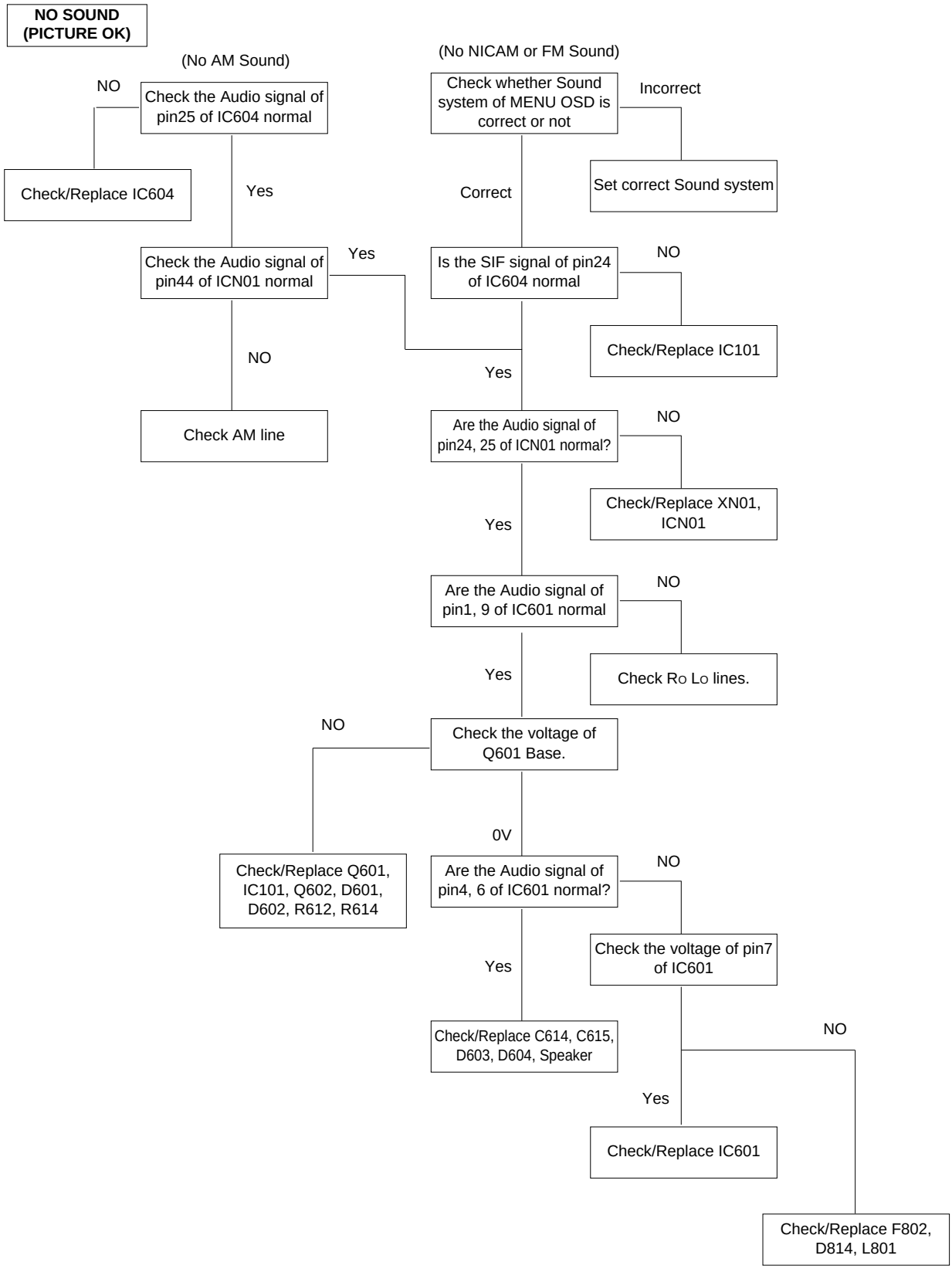
Table 2. OPTION 2. Function & DATA

Option	Code	Function	Remark
GAI	0		
	1	Amplify Y signal GAIN 6dB	
5LANG	0	14 OSD LANG.	
	1	5 OSD LANG.	ENG,FNC,GMN,SPN,ITL
ACMS	OFF	ACMS OFF	W/O TXT Model
	ON	ACMS ON	With TXT Model
HP	OFF	Headphone Off	
	ON	Headphone On	

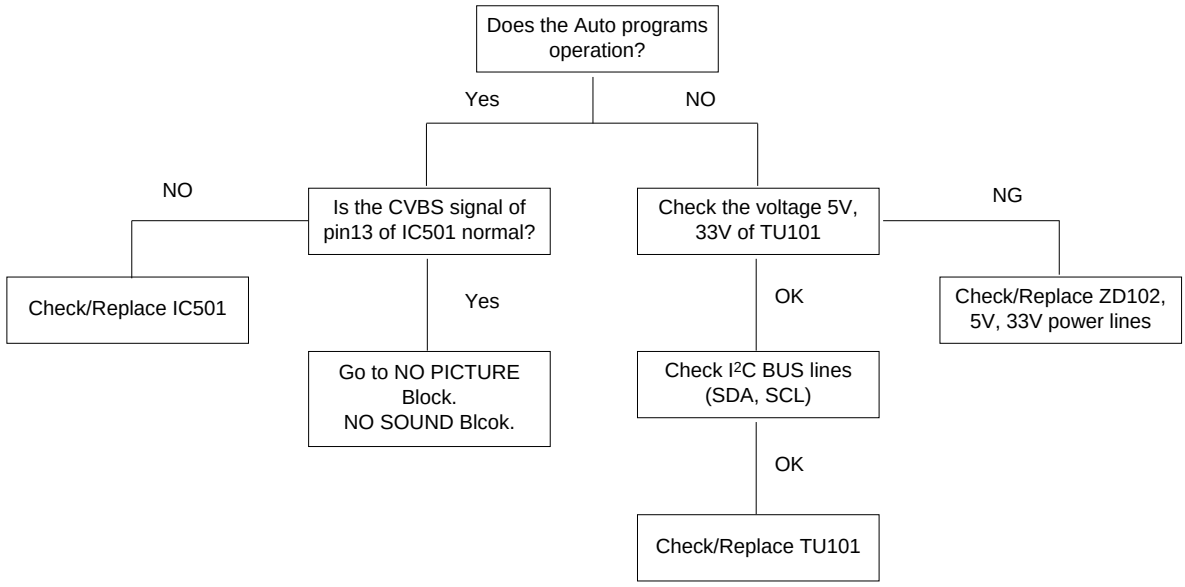
OPTION Data	GAI	5LANG	ACMS	HP
00	0	0	OFF	OFF
01	0	1	OFF	OFF
02	1	0	OFF	OFF
03	1	1	OFF	OFF
04	0	0	ON	OFF
05	0	1	ON	OFF
06	1	0	ON	OFF
07	1	1	ON	OFF
08	0	0	OFF	ON
09	0	1	OFF	ON
10	1	0	OFF	ON
11	1	1	OFF	ON
12	0	0	ON	ON
13	0	1	ON	ON
14	1	0	ON	ON
15	1	1	ON	ON

TROUBLESHOOTING

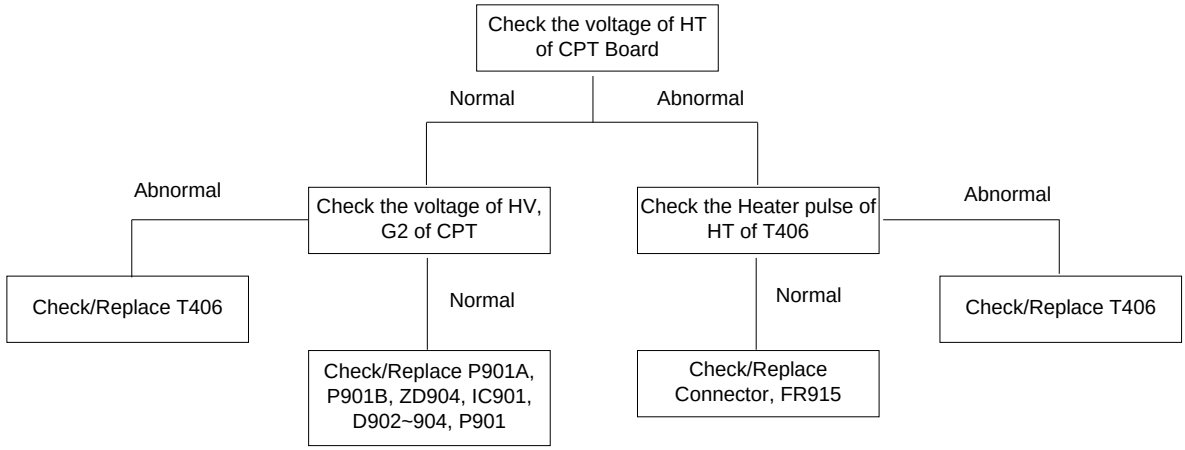



NO SOUND
(PICTURE OK)
(No AM Sound)
NO
Check the Audio signal of pin25 of IC604 normal
Check/Replace IC604
Yes
Check the Audio signal of pin44 of ICN01 normal
NO
Check AM line
Yes
(No NICAM or FM Sound)
Check whether Sound system of MENU OSD is correct or not
Incorrect
Set correct Sound system
Correct
Is the SIF signal of pin24 of IC604 normal
NO
Check/Replace IC101
Yes
Are the Audio signal of pin24, 25 of ICN01 normal?
NO
Check/Replace XN01, ICN01
Yes
Are the Audio signal of pin1, 9 of IC601 normal
NO
Check Ro Lo lines.
Yes
Check the voltage of Q601 Base.
NO
Check/Replace Q601, IC101, Q602, D601, D602, R612, R614
0V
Are the Audio signal of pin4, 6 of IC601 normal?
NO
Check the voltage of pin7 of IC601
Yes
Check/Replace C614, C615, D603, D604, Speaker
NO
Yes
Check/Replace IC601
Check/Replace F802, D814, L801

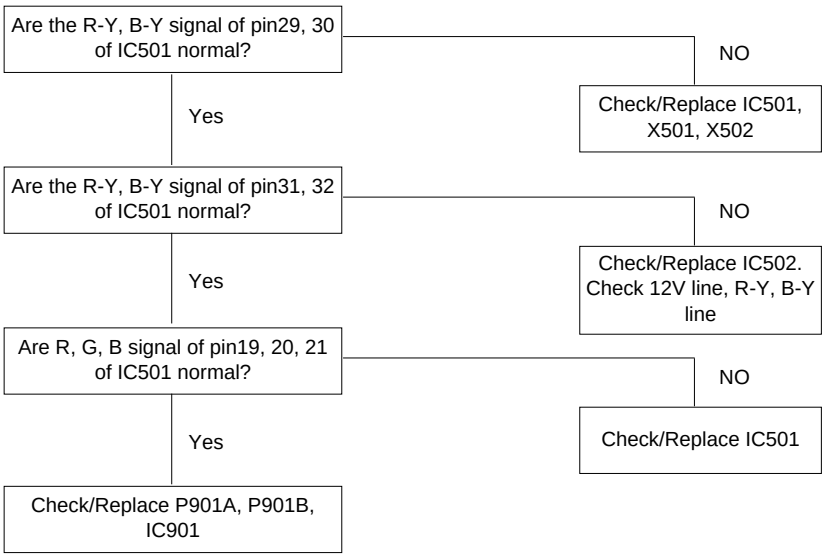
NO PICTURE/NO SOUND (RASTER OK)



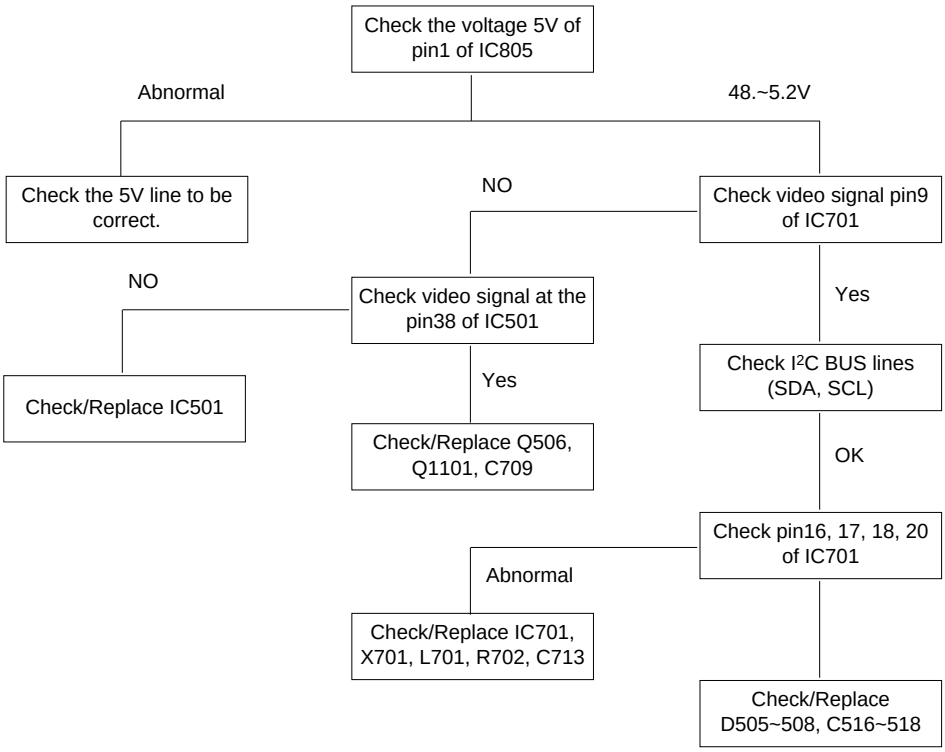
NO RASTER (SOUND OK)



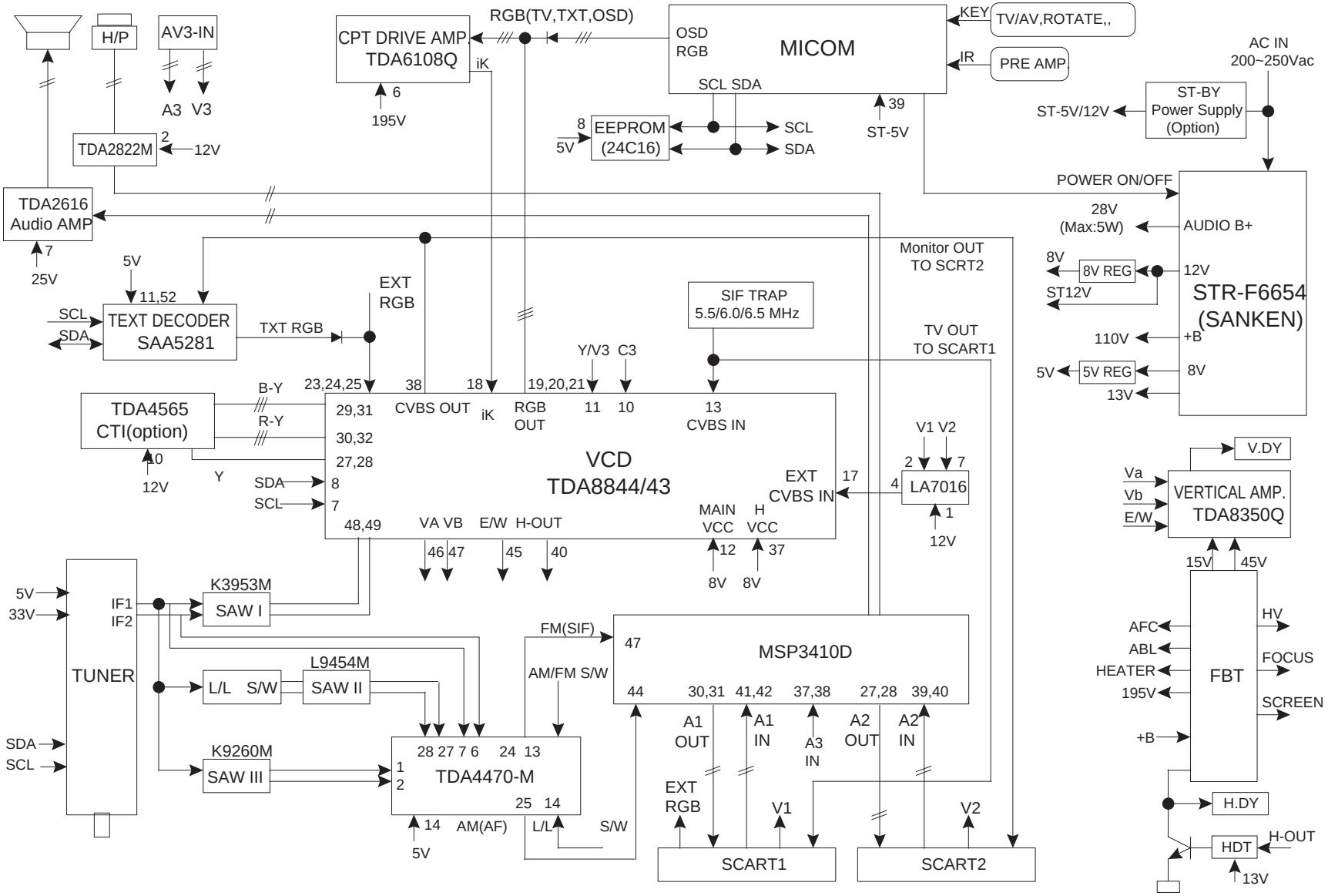
NO COLOR
(Autoprograming, Picture OK)


Are the R-Y, B-Y signal of pin29, 30 of IC501 normal?
NO
Check/Replace IC501, X501, X502
Yes
Are the R-Y, B-Y signal of pin31, 32 of IC501 normal?
NO
Check/Replace IC502. Check 12V line, R-Y, B-Y line
Yes
Are R, G, B signal of pin19, 20, 21 of IC501 normal?
NO
Check/Replace IC501
Yes
Check/Replace P901A, P901B, IC901

NO TELETEXT

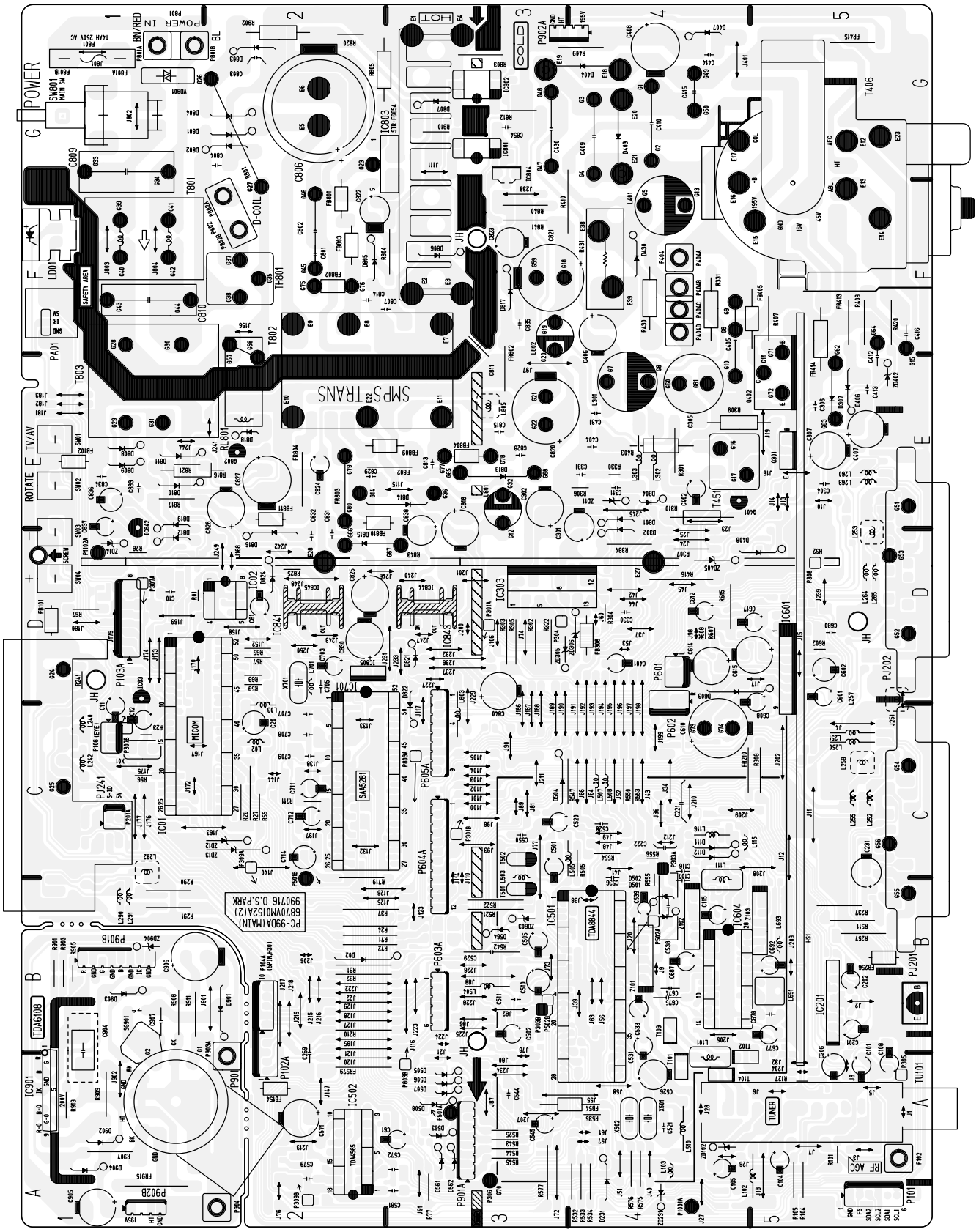


BLOCK DIAGRAM



PRINTED CIRCUIT BOARD

MAIN & CPT



Service Sheet of PC-99DA

P/N : 3854VA0044B-S
DATE : 1999.7.22

CPT-BOARD

IC901 TDA6108JF

IC501 TDA8844

TDA4470-M

IC502 TDA4565

IC701 SAA5281Z

IC01 CXP86441/SONY

IC02 AT24C16

IC201 LA7016

IC303 TDA8350Q

IC601 TDA2616

IC803 STR-F6654

ICN01 MSP3410 (SOUND PROCESSOR)

ICN60 TDA2822M

IC804 SE110N

IC842 KA78L05

IC841 KA7809

IC844 KA7905

IC801 KA1M0680R

IC802 4N35GV

IC891 PC123

P101 < LINE SVC >

P102A

P103A

P103B

P902B

P901A

P901B

P902A

P802

P404

P602 R-SPK

P601 L-SPK

PJ201 SCART1 JACK

PJ202 SCART2 JACK

ST-BY 2W OPTION

W/O ST-BY 2W OPTION

TO OPT EARTH

<STEREO & NICAM>

<SYSTEM OPTION>

COMPONENT	BG/LL'	BG	II'	BG/DK	
C523	62pF(CH-NPO)	3300pF(CH)	3300pF(CH)	62pF(CH-NPO)	
R536	150K(1W)	100K(1W)	100K(1W)	150K(1W)	
C524	0.047uF(CH)	0.1uF(CH)	0.1uF(CH)	0.047uF(CH)	
R505	RD. 150- 1/8W	RD 220- 1/8W	RD 270- 1/8W	RD 150- 1/8W	
R108	33(1W)	75(1W)	75(1W)	75(1W)	
J1045	—	0 ohm(1W)	0 ohm(1W)	0 ohm(1W)	
T501	T6.5	T6.0	T6.0	T6.5	
T502	T5.5	T5.5	T5.5	T5.5	
T101	T40.4	—	—	—	
T102	T40.4	T40.4	T40.9	T40.4	
C539	2.2uF	0.68uF	0.68uF	0.68uF	
A	0	X	X	X	
B	0	X	X	X	
C	0	X	X	X	
D	0	X	X	X	
E	0	X	X	X	
T103	—	T40.4	T40.9	T40.4	
IC501	TDA8844	TDA8843	TDA8843	TDA8844	
TU101	6700VFP005A	6700VFP005C	6700VFP005C	6700VFP005C	

<SW TABLE>

SW	OUTPUT
'L'	CVBS2
'H'	CVBS1

NOTICE

Since this is basic circuit diagram, the value of components and some partial connection are subject to be changed for improvement without notice.

The components marked ⚠ conform to VDE or IEC guide-lines and are essential for safe operation of the TV receiver. while those marked ⚠ are required for correct operation. Use specified parts only when replacing.

Value of resistor, capacitor and inductor

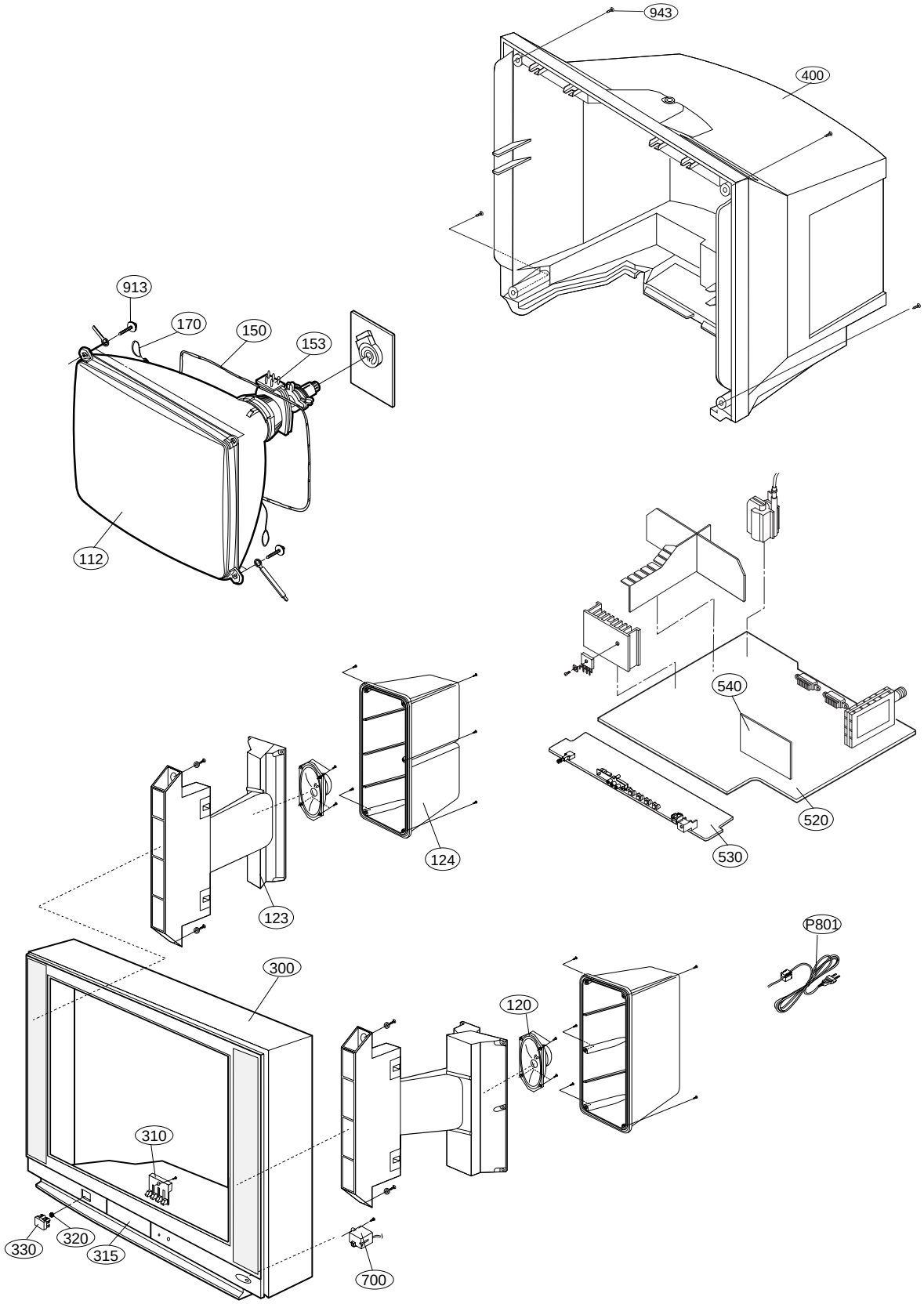
1. Resistances are shown in ohm. K=1,000. M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in mfd and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in uH and the values less than 1 in Henry(H).

Observation of voltages and waveforms

1. Voltages read with VTVM from point to chassis ground. line voltage is 230V~60V volts. signal pattern is colour-bar.
2. The schematic shown is representative only.
3. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
4. Check FINE TUNING, AGC, CONTRAST, BRIGHTNESS and COLOUR controls for best picture. make sure that COLOUR and BRIGHTNESS are in mid-point and CONTRAST is in 75%.
5. Waveforms are taken using a standard colour signal.

CVBS(Composite Video)
Croma
Audio
Waveform

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

The components identified by mark ⚠ are critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTIONS
⚠ 112	6341V21003A	BARE CPT ASSY,21"FLAT_NORTH
	6341V21003D	BARE CPT ASSY,21"FLAT
120	6400VF5001C	SPEAKER,MID-RANGE 8 OHM 5/12W 84DB
123	4810V00123A	BRACKET,CASE
124	4810V00124A	BRACKET,COVER
⚠ 150	150-D04Q	COIL,DEGAUSSING CU 21" 82TURN 15 OHM
⚠ 153	6150Z-1221A	DY,DC21SPFL2
⚠ 170	170-A01N	CPT EARTH,21" 64T
300	3091V00207D	CABINET ASSY,LG SILVER
310	5020V00340A	BUTTON,CONTROL
315	3580V00037A	DOOR,CONRTOL
320	320-070G	SPRING,COIL
330	5020V00337B	BUTTON,POWER
400	3809V00154A	BACK COVER ASSY
	3809V00154K	BACK COVER ASSY LGEUK
	3809V00154E	BACK COVER ASSY LGEPL
520	6871VMM344A	PWB ASSY,MAIN PC-99DA [24,14] CL-
	6871VMM344B	PWB ASSY,MAIN PC-99DA [57,14] CK-
	6871VMM344C	PWB ASSY,MAIN PC-99DA [27,14] CI-
	6871VMM344D	PWB ASSY,MAIN PC-99DA [30,14] CB-
530	6871VSM444A	PWB ASSY,POWER+CONTROL
540	6871VSM443A	PWB ASSY,A/V STEREO
	6871VSM443B	PWB ASSY,A/V STEREO
700	0IGL120104A	IC,CDS SENSOR MODULE
913	332-057B	SCREW ASSY,HEXAGON HEAD
943	1PTF0403116	SCREW,TAP TITE D4.0 L16.0
⚠ P801	174-009U	CORD,POWER(W/HOLD,HOUSING)L=350,4.0
	174-224A	POWER,CORD FOR UK

REPLACEMENT PARTS LIST

The components identified by mark ⚠ are critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION
		IC
ICN01	0IIT341000H	IC,MSP3410D 52P,SDIP BK B4-VERSIO
IC01	0ISO881817C	IC,LG8818-17C(CXP86441-562S) 52SD
IC02	0IAL241600B	IC,AT24C16-10PC 8D EEPROM 16K
ICN02	0ISS753300A	IC,KA7533Z RESET T0-92 TP 3.3V
IC03	0ISS754200A	IC,KA7542Z RESET TO92 TP 4.2V
ICN60	0ISG282200A	IC,TDA2822M 8D DUAL AUDIO AMP(1W)
IC201	0ISA701600A	IC,LA7016 8S ANALOG S/W
IC303	0IPH835050A	IC,TDA8350Q/N6 13P,SIP BK V/DEF+E
IC501	0IPH884400A	IC,TDA8844 56P,SDIP BK MULTI 1CHI
"	0IPH884312A	IC,TDA8843 56P,SDIP BK
IC502	0IPH456500A	IC,TDA4565 18DIP CTI
IC601	0IPH261600A	IC,TDA2616 STEREO AMP(20+20W)
IC604	0ITF447000A	IC,TDA4470M 28P,SDIP BK VIF+SIF
IC701	0IPH528100F	IC,SAA5281ZP/E 52P,SDIP BK WEST
⚠ IC801	0ISH123200B	IC,PC123 FY2PHOTO COUPLER
IC803	0ISK665413A	IC,STR-F6654(LF1352) 5P,SIP BK ST
IC804	0ISK110000A	IC,SE110N(LF12) 3P 110V ERROR AMP
IC805	0IKE780500K	IC,KIA7805PI 3P(TO-220IS) 5V,1A
IC841	0IKE780800A	IC,KIA7808PI 3P(TO-220IS) 1A,8V
IC842	0ISS780500J	IC,KA78L05AZ TO-92 TP 5V REGULATO
IC843	0IKE780500K	IC,KIA7805PI 3P(TO-220IS) 5V,1A
IC901	0IPH610800A	IC,TDA6108JF 9SIP BK VIDEO OUT AM
		DIODE
D02	0DD414809ED	DIODE,1N4148 TA
D101	0DD181009AB	DIODE,SWITCHING KDS181 85V 300MA
D111	0DD859009AA	DIODE,SILICON MA859
D112	0DD859009AA	DIODE,SILICON MA859
D231	0DD414809ED	DIODE,1N4148 TA
D301	0DD414809ED	DIODE,1N4148 TA
D302	0DD414809ED	DIODE,1N4148 TA
D304	0DD414809ED	DIODE,1N4148 TA
D307	0DD200009AH	DIODE,RECTIFIER RU2AMV(1)
D403	0DD410000AC	DIODE,RECTIFIER RU4DS
D404	0DD410000AD	DIODE,RECTIFIER RU4AM
D406	0DD060009AC	DIODE,TVR06J 0.6A/600V 250NS
D407	0DD060009AC	DIODE,TVR06J 0.6A/600V 250NS
D408	0DD400509AA	DIODE,RECTIFIER 1N4005
D409	0DD181009AB	DIODE,SWITCHING KDS181 85V 300MA
⚠ D430	0DD150009CA	DIODE,RECTIFIER RGP15J
D501	0DD859009AA	DIODE,SILICON MA859
D502	0DD859009AA	DIODE,SILICON MA859
D504	0DD414809ED	DIODE,1N4148 TA
D505	0DD414809ED	DIODE,1N4148 TA
D506	0DD414809ED	DIODE,1N4148 TA
D507	0DD414809ED	DIODE,1N4148 TA
D508	0DD414809ED	DIODE,1N4148 TA

LOCA. NO	PART NO	DESCRIPTION
D561	0DD414809ED	DIODE,1N4148 TA
D562	0DD414809ED	DIODE,1N4148 TA
D563	0DD414809ED	DIODE,1N4148 TA
D564	0DD414809ED	DIODE,1N4148 TA
D601	0DD181009AB	DIODE,SWITCHING KDS181 85V 300MA
D602	0DD181009AB	DIODE,SWITCHING KDS181 85V 300MA
D603	0DD414809ED	DIODE,1N4148 TA
D604	0DD181009AB	DIODE,SWITCHING KDS181 85V 300MA
D801	0DR153999AB	DIODE,RECTIFIER 1N5399GP(GP15M-5700)
D802	0DR153999AB	DIODE,RECTIFIER 1N5399GP(GP15M-5700)
⚠ D803	0DR153999AB	DIODE,RECTIFIER 1N5399GP(GP15M-5700)
D804	0DR153999AB	DIODE,RECTIFIER 1N5399GP(GP15M-5700)
D805	0DD100009AM	DIODE,RECTIFIER EU1ZV(1)
D806	0DD100009AM	DIODE,RECTIFIER EU1ZV(1)
D807	0DD414809ED	DIODE,1N4148 TA
D808	0DD060009AC	DIODE,TVR06J 0.6A/600V 250NS
D809	0DD060009AC	DIODE,TVR06J 0.6A/600V 250NS
D810	0DD060009AC	DIODE,TVR06J 0.6A/600V 250NS
D811	0DD060009AC	DIODE,TVR06J 0.6A/600V 250NS
D812	0DD060009AC	DIODE,TVR06J 0.6A/600V 250NS
D813	0DD300009AC	DIODE,RECTIFIER RU3AMV(1)
D814	0DD410000AD	DIODE,RECTIFIER RU4AM
D815	0DD300009AC	DIODE,RECTIFIER RU3AMV(1)
D816	0DD200009AF	DIODE,RECTIFIER RU2M V(1)
D817	0DD100009AU	DIODE,RECTIFIER EU1AV(1)
⚠ D818	0DD414809ED	DIODE,1N4148 TA
D819	0DD060009AC	DIODE,TVR06J 0.6A/600V 250NS
D820	0DD181009AB	DIODE,SWITCHING KDS181 85V 300MA
D821	0DD414809ED	DIODE,1N4148 TA
D822	0DD414809ED	DIODE,1N4148 TA
D824	0DD414809ED	DIODE,1N4148 TA
D901	0DD400309AD	DIODE,RECTIFIER IN4003A
D902	0DR210009AA	DIODE,RECTIFIER BAV21 DO-35 200V
D903	0DR210009AA	DIODE,RECTIFIER BAV21 DO-35 200V
D904	0DR210009AA	DIODE,RECTIFIER BAV21 DO-35 200V
LD1101	162-002B	DIODE,LED ASSY
ZD11	0DZ510009DB	DIODE,ZENER MTZJ5.1B TP ROHM-K DO34 500MW
ZD12	0DZ560009CF	DIODE,ZENER MTZJ5.6B TP ROHM-K DO34 0.5W
ZD13	0DZ560009CF	DIODE,ZENER MTZJ5.6B TP ROHM-K DO34 0.5W
ZD14	0DZ910009AJ	DIODE,ZENER MTZJ9.1B TP ROHM-K DO34 0.5W
ZD102	0DZ330009BA	DIODE,ZENER HZT33(TP) HITACHI
ZD231	0DZ120009AF	DIODE,ZENER MTZJ12B TP ROHM-K DO34 500MW
ZD305	0DZ110009AD	DIODE,ZENER MTZJ11B TP ROHM-K DO34 500MW
ZD306	0DZ240009CG	DIODE,ZENER MTZJ24B TP ROHM-K DO34 500MW
ZD402	0DZ820009AH	DIODE,ZENER MTZJ8.2B TP ROHM-K DO34 500MW
ZD405	0DZ820009AH	DIODE,ZENER MTZJ8.2B TP ROHM-K DO34 500MW
ZD603	0DZ180009AG	DIODE,ZENER MTZJ18B TP ROHM-K DO34 500MW
ZD904	0DZ750009AG	DIODE,ZENER MTZJ7.5B TP ROHM-K DO34 0.5W
ZD1102	0DZ620009AA	DIODE,ZENER MTZ6.2B,TP(52MM),ROHM

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LOCA. NO	PART NO	DESCRIPTION
		TRANSISTOR
Q01	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q02	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q03	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q51	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q101	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q103	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q104	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q112	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q113	0TR388109AA	KTC3881 CHIP KEC
Q114	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q115	0TR102009AG	CHIP KRC102S SOT-23 TP KEC
Q201	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q231	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q232	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q301	0TR988000AC	KTB988-Y(KTB834),KEC KEC
Q401	0TR233109AA	KSC2331-Y TP SAMSUNG TO-92L
⚠ Q402	0TR188600AA	2SD1886,SANYO
Q403	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q501	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q505	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q506	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q507	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q510	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q512	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q585	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q601	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q602	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q701	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q802	0TR320209AA	KTC3202-TP-Y (KTC1959)KEC
QN1	0TR150400BA	CHIP 2SA1504S(ASY) KEC
QN2	0TR150400BA	CHIP 2SA1504S(ASY) KEC
QN3	0TR150400BA	CHIP 2SA1504S(ASY) KEC
QN4	0TR150400BA	CHIP 2SA1504S(ASY) KEC
		CAPACITOR
C10	0CQ1021N509	0.001U 100V K
C11	0CE106DF618	10UF STD 16V M
C12	0CE335DK618	3.3UF STD 50V M
C20	0CE107DD618	100UF STD 10V M
C61	0CE476DF618	47UF STD 16V M
C81	0CE476DD618	47UF STD 10V M
C101	0CE475DK618	4.7UF STD 50V M
C104	0CE227DD618	220UF STD 10V M
C105	0CE476DK618	47UF STD 50V M
C107	0CN2230H949	22000P 25V Z
C108	0CE107DF618	100UF STD 16V M
C115	0CE476DD618	47UF STD 10V M
C116	0CN1030F679	10000P 16V M
C201	0CE226DF618	22UF STD 16V M

LOCA. NO	PART NO	DESCRIPTION
C202	0CE226DF618	22UF STD 16V M
C206	0CE107DF618	100UF STD 16V M
C221	0CN2210K519	220P 50V K
C222	0CN2210K519	220P 50V K
C231	0CE227DF618	220UF STD 16V M
C269	0CX4700K409	47P 50V J
C301	0CE226BK618	22UF KME 50V M
C302	0CE477BJ618	470UF KME 35V M
C304	0CQ1042K439	0.1UF S 50V J
C305	0CE685BK652	6800000 PF KME TYPE 50V M
C306	0CK2710W515	270P 500V K
C307	0CE477BJ618	470UF KME 35V M
C311	181-442Z	PE,ECQ-B1H104KF3(TR)
C330	0CQ1031N509	0.01U 100V K
C331	181-442Z	PE,ECQ-B1H104KF3(TR)
C401	0CE474DK618	0.47UF STD 50V M
C402	0CE106BK618	10UF KME 50V M
C404	0CQ3332K439	0.033UF S 50V J
⚠ C406	0CE106BR618	10UF KME 250V M
C407	0CE476DN618	47UF STD 100V M
C408	0CE2261R618	22M SM 250V M TP5
C409	181-014C	1600V 0.0056UF J
C410	181-014C	1600V 0.0056UF J
C412	181-010G	400V 0.01UF K
C413	0CK2710W515	270P 500V K
C414	0CK2710W515	270P 500V K
C415	181-005H	400V 0.022UF K(S:7.5)
C416	181-009V	200V 0.047UF K
⚠ C430	181-013G	200V 0.5UF J
C431	0CK47102515	470P 2KV K
C501	0CE476DD618	47UF STD 10V M
C502	0CE476DD618	47UF STD 10V M
C505	0CE225DK618	2.2UF STD 50V M
C510	0CE107DD618	100UF STD 10V M
C511	0CQ3342K439	0.33UF S 50V J
C520	0CE335DK618	3.3UF STD 50V M
C521	0CC2210K415	220P 50V J
C526	0CE227DF618	220UF STD 16V M
C528	0CN1020K519	1000P 50V K
C529	0CN1040K949	0.1M 50V Z
C531	0CE105DK618	1UF STD 50V M
C533	0CE105DK618	1UF STD 50V M
C536	0CN1020K519	1000P 50V K
C538	0CQ1041N455	0.1UF 100V J
C539	0CSZVTA001G	2.2UF 25V K
"	0CSZVTA001F	0.68UF 35V K *CB-
C544	0CQ3342K439	0.33UF S 50V J
C545	0CE105DK618	1UF STD 50V M
C550	0CQ1021N519	0.001U 100V K
C571	0CE108DF618	1000UF STD 16V M
C572	0CQ3342K439	0.33UF S 50V J
C579	0CQ3342K439	0.33UF S 50V J

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LOCA. NO	PART NO	DESCRIPTION
C581	0CQ3342K439	0.33UF S 50V J
C601	0CE225DK618	2.2UF STD 50V M
C602	0CE476DH618	47UF STD 25V M
C608	0CE225DK618	2.2UF STD 50V M
C610	0CE228DJ61A	2200UF STD 35V M
C612	0CE476DF618	47UF STD 16V M
C614	0CE477DH618	470UF STD 25V M
C615	0CE477DH618	470UF STD 25V M
C617	0CE106DF618	10UF STD 16V M
C674	0CN1030F679	10000P 16V M Y
C675	0CN1030F679	10000P 16V M Y
C677	0CE226DF618	22UF STD 16V M
C678	0CQ4742K439	0.47UF S 50V J
C680	0CQ3342K439	0.33UF S 50V J
C687	0CE106DF618	10UF STD 16V M
C692	0CE107DD618	100UF STD 10V M
C703	0CE107DD618	100UF STD 10V M
C705	0CX8R20K509	8.2P 50V K SL TA52
C707	181-442Z	PE,ECQ-B1H104KF3(TR)
C708	181-442Z	PE,ECQ-B1H104KF3(TR)
C709	0CQ3342K439	0.33UF S 50V J
C711	0CE476DF618	47UF STD 16V M
C712	0CE476DF618	47UF STD 16V M
C714	0CE107DD618	100UF STD 10V M
C801	181-091K	R 561K 2KV TP7.5
C803	0CK10201515	1000P 1KV K
C804	0CK10201515	1000P 1KV K
C806	181-001F	CE 400V 220UF M
C807	181-091P	1KV SL 271J TP5
⚠ C811	181-120E	ACT 4KV E 222M FL10
C813	181-091P	1KV SL 271J TP5
C814	181-091G	R 471K 2KV TP7.5
C815	181-091P	1KV SL 271J TP5
C818	0CE477BJ618	470UF KME 35V M
C820	0CE227BQ610	220UF KME TYPE 200V M
C821	0CE107BQ650	100UF KME 200V M
C822	0CE107BJ618	100UF KME 35V M
C823	0CE227BH618	220UF KME 25V M
C824	0CE475BK618	4.7UF KME 50V M
C825	0CE108BF618	1000UF KME 16V M
C826	0CE108BF618	1000UF KME 16V M
C827	0CE108BH618	1000UF KME 25V M
C828	181-091R	1KV R 102K TP5
C829	181-091Q	1KV R 471K TP5
C830	0CE477BH618	470UF KME TYPE 25V M
C831	181-091Q	1KV R 471K TP5
C832	181-091Q	1KV R 471K TP5
C833	0CK1020W515	1000P 500V K
⚠ C834	0CK1020W515	1000P 500V K
C835	0CK4710W515	470PF 500V K
C836	0CE107DF618	100UF STD 16V M
C837	0CE107BH618	100UF KME 25V M
C838	0CE227BF618	220UF KME 16V M
C854	181-442Z	ECQ-B1H104KF3(TR)
C904	181-013L	400V 0.08UF J
C905	0CE106DR618	10UF STD 250V M
C906	0CE106DR618	10UF STD 250V M
C907	0CK12202510	1200P 2KV K
C1101	0CN1030F679	10000P 16V M
C1102	0CN1030F679	10000P 16V M
C1103	0CE475DK618	4.7UF STD 50V M
C1104	0CN1810K519	180P 50V K
C1105	0CN1810K519	180P 50V K
C1110	0CN1810K519	180P 50V K
C1111	0CN1810K519	180P 50V K
C1112	0CN4710K519	470P 50V K
C1113	0CN4710K519	470P 50V K
CN02	0CE227DD618	220UF STD 10V M
CN04	0CE335DK618	3.3UF STD 50V M
CN13	0CE474DK618	0.47UF STD 50V M
CN14	0CE474DK618	0.47UF STD 50V M
CN17	0CE106DF618	10UF STD 16V M
CN18	0CE106DF618	10UF STD 16V M
CN21	0CE474DK618	0.47UF STD 50V M
CN22	0CE474DK618	0.47UF STD 50V M
CN23	0CE107DD618	100UF STD 10V M
CN25	0CE106DF618	10UF STD 16V M
CN40	0CE106DF618	10UF STD 16V M
CN45	0CE107DD618	100UF STD 10V M
CN53	0CQ3342K439	0.33UF S 50V J
CN60	0CE227DF618	220UF STD 16V M
CN62	0CE107DF618	100UF STD 16V M
CN63	0CE107DF618	100UF STD 16V M
CN64	0CE227DF618	220UF STD 16V M
CN65	0CE227DF618	220UF STD 16V M
CP810	0CQZVBK002C	A.C 275V 0.22UF K

CORE

FB54	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB102	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB130	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB154	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB256	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB308	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB405	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB801	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB802	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB804	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB809	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB811	125-022K	CORE (CIRC),BEAD FERRITE 1UH
FB1101	125-022K	CORE (CIRC),BEAD FERRITE 1UH
J169	125-022K	CORE (CIRC),BEAD FERRITE 1UH
L253	125-123A	CORE (CIRC),FERRITE BFD3565R2F
L258	125-123A	CORE (CIRC),FERRITE BFD3565R2F

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LOCA. NO	PART NO	DESCRIPTION
L550	125-123A	CORE (CIRC),FERRITE BFD3565R2F
L805	125-123A	CORE (CIRC),FERRITE BFD3565R2F
FUSE		
⚠ FR804	131-096D	FUSE,NON TIME DELAY 3000MA 125V
⚠ F802	131-096D	FUSE,NON TIME DELAY 3000MA 125V
⚠ FP801	131-098B	FUSE,TIME LAG 4000MA 250 V 5.2X20
COIL & TRANSFORMER		
L02	0LA0152K119	INDUCTOR,15UH K
L03	0LA0102K119	INDUCTOR,10UH K
L101	150-C01G	COIL,CHOKE 1.0UH A 1105
L102	0LA0102K139	INDUCTOR,10UH K
L111	150-C01A	COIL,CHOKE 0.29UH A 1105
L115	0LA0102K119	INDUCTOR,10UH K
L116	0LA0102K119	INDUCTOR,10UH K
L250	0LA0102K119	INDUCTOR,10UH K
L251	0LA0102K119	INDUCTOR,10UH K
L252	0LA0102K119	INDUCTOR,10UH K
L255	0LA0102K119	INDUCTOR,10UH K
L260	0LA0102K119	INDUCTOR,10UH K
L263	0LA0102K119	INDUCTOR,10UH K
L264	0LA0102K119	INDUCTOR,10UH K
L265	0LA0102K119	INDUCTOR,10UH K
L301	150-717K	COIL,CHOKE 1.1MH
⚠ L401	6140VE0001N	COIL,H-LINEARITY 38UH 1PHY
L503	0LA0821K119	INDUCTOR,8.2UH K
L504	0LA0102K119	INDUCTOR,10UH K
L505	0LA0331K119	INDUCTOR,3.3UH K
L507	0LA1000K119	INDUCTOR,100UH K
L508	0LA1000K119	INDUCTOR,100UH K
L510	0LA0102K119	INDUCTOR,10UH K
L691	150-E16C	COIL,IFT VAR,07S 1B 38.9MHZ
L693	0LA0102K119	INDUCTOR,10UH K
L701	0LA0221K119	INDUCTOR,2.2UH K
L801	150-C02F	COIL,CHOKE 82UH
L802	150-C02F	COIL,CHOKE 82UH
L803	0LA1000K139	INDUCTOR,100UH K
L1101	0LA0102K119	INDUCTOR,10UH K
L1102	0LA0102K119	INDUCTOR,10UH K
L1103	0LA0102K119	INDUCTOR,10UH K
L1110	0LA1000K119	INDUCTOR,100UH K
L1113	0LA1000K119	INDUCTOR,100UH K
LN03	0LA0102K119	INDUCTOR,10UH K
LN05	0LA0102K119	INDUCTOR,10UH K
LN07	0LA1000K119	INDUCTOR,100UH K
LP801	150-F06J	COIL,LINE FILTER SQE2930 18MH
⚠ RL801	141-018E	RELAY,DG12D1-0(M)-2 12V44MA
T406	6174Z-6029A	FBT FTMPC91 -T6029A
⚠ T451	6170VC0003C	TRANSFORMER,HORIZONTAL 10MM 75UH
⚠ T802	151-A13M	TRANSFORMER,SMPS EER4215 400UH
⚠ T803	151-D02F	TRANSFORMER,ST-BY EI-35 BULK

LOCA. NO	PART NO	DESCRIPTION
CONNECTOR		
P102B	387-B10C	CONNECTOR ASSY,10P 200MM
P103B	387-A08B	CONNECTOR ASSY,8P (L=150)
P501A	387-917A	CONNECTOR ASSY,1P(100MM)
P501B	387-917A	CONNECTOR ASSY,1P(100MM)
P901A	6631V25021N	CONNECTOR ASSY,8P 500MM
P901B	6631V25021N	CONNECTOR ASSY,8P 500MM
P902A	6631V25021M	CONNECTOR ASSY,4(3)P 450MM
P902B	6631V25021M	CONNECTOR ASSY,4(3)P 450MM
JACK		
PJ201	6612VMH001A	JACK,SCART UPJ-R1-018 RGB 21 PI
PJ202	6612VMH001A	JACK,SCART UPJ-R1-018 RGB 21 PI
PL1101	6613V00004G	JACK ASSY,PJ6054G E/P+A/
RESISTOR		
FR210	0RF0102G609	10 1/4W 5
⚠ FR413	0RF0470H609	0.47 1/2W 5
⚠ FR414	0RF0470J607	0.47 1W 5%
FR579	0RF0222H609	22 1/2W 5
⚠ FR802	0RF0470H609	0.47 1/2W 5
⚠ FR803	0RF0470H609	0.47 1/2W 5
⚠ FR804	0RF0101J607	1 1W 5%
⚠ FR915	0RF0301K607	3 2W 5%
R01	0RD1000F609	100 1/6W 5
R23	0RD1001F609	1.0K 1/6W 5
R24	0RD1002F609	10K 1/6W 5
R26	0RD4702F609	47K 1/6W 5
R27	0RD4702F609	47K 1/6W 5
R28	0RD6200F609	620 1/6W 5
R37	0RD1002F609	10K 1/6W 5
R55	0RD1001F609	1.0K 1/6W 5
R56	0RD1002F609	10K 1/6W 5
R57	0RD1000F609	100 1/6W 5
R59	0RD1000F609	100 1/6W 5
R63	0RD1000F609	100 1/6W 5
R65	0RD1000F609	100 1/6W 5
R67	0RD4701F609	4.7K 1/6W 5%
R71	0RD1000F609	100 1/6W 5
R72	0RD1000F609	100 1/6W 5
R77	0RD1001F609	1.0K 1/6W 5
R101	0RD1202F609	12K 1/6W 5
R104	0RD1000F609	100 1/6W 5
R105	0RD1000F609	100 1/6W 5
R127	0RD4702F609	47K 1/6W 5
R210	0RD1000F609	100 1/6W 5
R237	0RD4700F609	470 1/6W 5
R257	0RD1000F609	100 1/6W 5
R301	0RD0512H609	51 1/2W 5
R302	0RN0221H609	2.2 1/2W 5
R303	0RN2701F409	2.7K 1/6W 1%

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Replace only with part number specified.

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;
CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic
RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R304	0RD2201F609	2.2K 1/6W 5
R306	0RD0222F609	22 1/6W 5
R307	0RN6802F409	68K 1/6W 1%
R308	0RD1201F609	1.2K 1/6W 5
R309	0RS0332K607	33 2W 5%
R310	0RS5601J607	5.6K 1W 5%
R322	0RN0221H609	2.2 1/2W 5
R330	0RD0222F609	22 1/6W 5
R331	0RS2200K607	220 2W 5%
R334	0RD0222H609	22 1/2W 5
R403	0RS3300J607	330 1W 5%
R407	0RD0332H609	33 1/2W 5
⚠ R408	0RS5601H609	5.6K 1/2W 5
R409	0RD2203H609	220K 1/2W 5
⚠ R410	0RS0470J607	0.47 1W 5%
R416	0RS8201J607	8.2K 1W 5%
R420	0RD1001F609	1.0K 1/6W 5
⚠ R430	0RS1801J607	1.8K 1W 5%
⚠ R431	180-B01M	5W 7.5K J
R505	0RD1500F609	150 1/6W 5
"	0RD2200F609	220 1/6W 5 *CB-
R511	0RD1800F609	180 1/6W 5
R521	0RD2200F609	220 1/6W 5
R522	0RD2200F609	220 1/6W 5
R525	0RD4701F609	4.7K 1/6W 5%
R532	0RD1001F609	1.0K 1/6W 5
R533	0RD1001F609	1.0K 1/6W 5
R534	0RD1001F609	1.0K 1/6W 5
R535	0RD1501F609	1.5K 1/6W 5
R542	0RD1002F609	10K 1/6W 5
R543	0RD1000F609	100 1/6W 5
R544	0RD1000F609	100 1/6W 5
R545	0RD1000F609	100 1/6W 5
R547	0RD2703F609	270K 1/6W 5
R550	0RD2702F609	27K 1/6W 5
R553	0RD3303F609	330K 1/6W 5
R554	0RD8202F609	82K 1/6W 5
R555	0RN3902F409	39K 1/6W 1%
R556	0RD1201F609	1.2K 1/6W 5
R575	0RD1001F609	1.0K 1/6W 5
R576	0RD1001F609	1.0K 1/6W 5
R577	0RD3600F609	360 1/6W 5
R602	0RD4701F609	4.7K 1/6W 5%
R607	0RD0102F609	10 1/6W 5
R608	0RD0102F609	10 1/6W 5
R615	0RD0331H609	3.3 1/2W 5
R711	0RD1001F609	1.0K 1/6W 5
R719	0RD1001F609	1.0K 1/6W 5
⚠ R801	0RKZVBK002A	2.2 OHM 7W 10%
⚠ R802	0RS4702K607	47K 2W 5%
⚠ R803	180-C02H	1/2W 8.2M K
R804	0RD0101H609	1.0 1/2W 5
R805	180-A01E	2W 0.33 J
R810	0RD4701F609	4.7K 1/6W 5%
R816	0RS0562J607	56 1W 5%
R817	0RD0472F609	47 1/6W 5%
R821	0RD4701F609	4.7K 1/6W 5%
R825	0RD6801F609	6.8K 1/6W 5
R840	0RD0512H609	51 1/2W 5
R901	0RD1000F609	100 1/6W 5
R903	0RD1000F609	100 1/6W 5
R905	0RD1000F609	100 1/6W 5
R907	0RS1001H609	1.0K 1/2W 5
R908	0RS1001H609	1.0K 1/2W 5
R909	0RS1001H609	1.0K 1/2W 5
R911	0RD2204H609	2.2M 1/2W 5
R913	0RD1000F609	100 1/6W 5
R1103	0RD1002F609	10K 1/6W 5
R1104	0RD1002F609	10K 1/6W 5
R1105	0RD1002F609	10K 1/6W 5
R1106	0RD1002F609	10K 1/6W 5
R1108	0RD0272H609	27 1/2W 5
R1109	0RD0272H609	27 1/2W 5
R1112	0RD0752F609	75 1/6W 5%
R1117	0RD1000F609	100 1/6W 5
RN03	0RD1000F609	100 1/6W 5
RN04	0RD1000F609	100 1/6W 5
RN06	0RD1001F609	1.0K 1/6W 5
RN07	0RD1001F609	1.0K 1/6W 5
RN08	0RD1001F609	1.0K 1/6W 5
RN09	0RD1001F609	1.0K 1/6W 5
RN18	0RD1001F609	1.0K 1/6W 5
RN19	0RD1001F609	1.0K 1/6W 5
RN60	0RF0102G609	10 1/4W 5

SWITCH

SWP801	6600VM2002A	SWITCH,PUSH SDKEA3 250V 8A HORIZO
SW1103	140-315A	SWITCH,TACT SKHV17910B NON 12V
SW1104	140-315A	SWITCH,TACT SKHV17910B NON 12V
SW1105	140-315A	SWITCH,TACT SKHV17910B NON 12V
SW1106	140-315A	SWITCH,TACT SKHV17910B NON 12V

FILTER & CRYSTAL

T101	166-C06D	FILTER(CIRC),TRAP MKT40.4MA110P-TF01 40.4
T102	166-C06D	FILTER(CIRC),TRAP MKT40.4MA110P-TF01 40.4
"	166-C06A	FILTER(CIRC),TRAP MKT40.9MA110P-TF01 *CI-
T103	166-C06D	FILTER(CIRC),TRAP MKT40.4MA110P-TF01 40.4
"	166-C06A	FILTER(CIRC),TRAP MKT40.9MA110P-TF01 *CI-
T501	166-C02E	FILTER(CIRC),TRAP TPS6.5MB-TF21 6.5MHZ
"	166-C02D	FILTER(CIRC),TRAP TPS6.0MB-TF21 *CB-
T502	166-C02C	FILTER(CIRC),TRAP TPS5.5MB-TF21 5.5MHZ
"	166-C02E	FILTER(CIRC),TRAP TPS6.5MB-TF21 6.5MHZ
X501	156-A01V	CRYSTAL,HC49U 4.433619MHZ 3
X502	156-A01C	CRYSTAL,HC49U 3.579545MHZ 3

The components identified by mark ⚠ are critical for safety.
Replace only with part number specified.

LOCA. NO	PART NO	DESCRIPTION
X701	156-A02U	CRYSTAL,HC49U 27.000MHZ 30P
XN01	156-A02M	CRYSTAL,HC49U 18.432MHZ 30P
Z101	166-A01B	FILTER,OFWK3953M SIEMENS 37.4MHZ
Z102	6200VQS001D	FILTER(CIRC),SAW OFWK9260M 38.9MHZ
Z103	166-A01U	FILTER (CIRC),SAW OFWL9454M 40.4MHZ
ZN02	166-F01D	FILTER,DSS306-93Y5S271M MURATA 50VOLT
ACCESSORIES		
A1	3828VA0199B	MANUAL,OWNERS DG,LG,GE,FR
A1	3828VA0199D	MANUAL,OWNERS UK,LG,EN 009K
A1	3828VA0199G	MANUAL,OWNERS ES,LG,SP/PO
A1	3828VA0199F	MANUAL,OWNERS IS,LG,IT 009Q
A1	3828VA0199J	MANUAL,OWNERS FS,LG,FR 009K
A1	3828VA0199M	MANUAL,OWNERS PL,LG,PL/EN
A2	6710V00009K	REMOTE CONTROLLER
A2	6710V00009Q	REMOTE CONTROLLER
A3	132-199D	ANTENNA,ROD(W/ADAPTER L=650)
A3	132-210J	ANTENNA,2POLE 3SECTION
MISCELLANEOUS		
⚠ P901	6620VBC001A	SOCKET,CPT 29.1 PHI SINGLE(PCS629-03A)
PA1101	106-048B	PRE-AMP SBX1677-02F(38.0KHZ)
SG901	165-004A	SPARK GAP AG20PT 152F-L3N/S-23
⚠ TH801	163-051F	THERMISTOR,PTC J503P84D140M290Q
TU101	6700VPF005A	TUNER,TU8PSD01DB PAL DIN BG/L
"	6700VPF005C	TUNER,TAEC-G022D
VDP801	164-003K	VARISTOR,SVC621D-14A 620V 0%
X01	166-E05D	RESONATOR,CSTS0800MG03-T2 8.0MHZ

LOCA. NO	PART NO	DESCRIPTION